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Application/Control No.

10/630,262

Examiner

Carolyn L. Smith

Applicant(s)/Patent under Reexamination

**HUANG ET AL.** 

Art Unit

1631

| √ | Rejected |
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| = | Allowed  |

- (Through numeral)
Cancelled

Restricted

N Non-Elected

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A Appeal
O Objected

|          |          |          |          |              |  |  |          |          | _        |          |     |          |          |          |              |                  | _  | _            | · · · · · | _        | _            |            |  | J  |
|----------|----------|----------|----------|--------------|--|--|----------|----------|----------|----------|-----|----------|----------|----------|--------------|------------------|--|--------------|-----------|----------|--------------|------------|--|--|
| Claim    |          | L        | Date     |              |  |  |          |          |          | ]        | CI  | aim      | Date     |          |              |                  |  |              |           | ]        | Claim        |            |  |  |
| Final    | Original | 1/15/08  |          |              |  |  |          |          |          |          |     | Final    | Original |          |              |                  |  |              |           |          |              |            | Final  | Original                                     |
|          | 1        | 1        |          | 1            |  |  |          |          |          |          | 1 . |          | 51       | $\Box$   |              | 1                | 1  |              |           |          | 一            |            |  | 10   |
|          | 2        | 1        |          | $oxed{oxed}$ |  | $\mathbf{I}$                                     |          | T        |          |          | 1   |          | 52       |          |              | T                |  |              | $\vdash$  |          |              | 1          |  | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 |
|          | 3        | V        |          |              | L  |  | $\perp$  | L        | $\prod$  |          |     |          | 53       |          |              | T                | Г  |              | Π         |          |              | 1          |  | 10   |
| L_       | 4        | V        |          |              |  |  |          |          | L        |          | ] . |          | 54       |          |              |                  |  |              |           |          |              | ] .        |  | 10   |
|          | 5        | 1        |          | _            |  | L  |          |          |          | 1.       | ] . |          | 55       |          |              | Т                |  |              |           |          |              |            |  | 10   |
| <u> </u> | 6        | V        | 1        | 1            |  | _  | ┸        | $\perp$  |          |          | ]   |          | 56       |          |              |                  |  |              |           |          |              | ]          |  | 10   |
|          | 7        | V        | 1        | $\perp$      | 1  | ┖  | _        | _        | ┸        |          | _   | <u> </u> | 57       |          |              |                  |  |              |           |          |              | ]          |  | 10   |
|          | 8        | 1        | ↓_       | ↓_           | 1_   | 1  | ↓        | $\perp$  | 1_       | _        | 4.  | <u> </u> | 58       | Ш        |              | 1                | <u> </u>   | 乚            | L         |          | L            | ]          |  | 10   |
|          | 9        | V        | ┺        | ╄            | ┼-   | _  | ļ        | ╀        | ↓_       | ╀-       | 4   |          | 59       | $\sqcup$ | _            | _                | <u> </u>   | <u>_</u>     | <u></u>   | _        | L            | 1          |  | 10   |
| -        | 10       | 1        | ├-       | +            | ╀  | +  | +        | ╄        | ┼        | ↓_       |     |          | 60       | $\sqcup$ | _            | $\perp$          | <u> </u>   |              | _         | L.       | _            | ١.٠        | <u></u>  | 11   |
|          | 11       | ٧        | ╄        | ╀            | ╄  | +  | ╀        | +-       | ╄        | ╄        | } ; |          | 61       |          | $\perp$      | ┼                | _  | _            | L.        | _        |              | <b>!</b> : | <u> </u>   | 11   |
|          | 12<br>13 | 1        | $\vdash$ | ╀╌           | ╁  | +  | ╀        | ╀        | ╀        | ╄        | ١.  | -        | 62       | $\vdash$ | -            | -                | <u> </u>   | <u> </u>     |           |          |              |            |  | 11   |
| _        | 14       | 1        | -        | ╁            | ╂  | +-   | ╁        | ╀        | +-       | +        | -   | <u> </u> | 63       | $\vdash$ | - -          | +                | _  | _            | _         |          | _            |            | <u> </u>   | 11   |
| -        | 15       | 1        | +-       | ╀            | ╁  | ╁  | ╁        | +        | ┢        | ╁╾       | ┨.  | <u> </u> | 64<br>65 | -        | +            | ╁                | <u> </u>   |              |           | <u> </u> | <del> </del> | ┨.         |  | 11   |
|          | 16       | N        | ┢        | ╁            | +  | ╁  | +-       | +        | ╀╌       | +        | .:  |          | 66       | -        | +            | +                | ┝  |              |           | _        | ├-           |            | $\vdash$   | 11   |
|          | 17       | N        | $\vdash$ | ╁╌           | ╁╌   | ╁╌   | +-       | +        | ╁        | ╁        | 1:  | <u> </u> | 67       | ⊢┼       |              | ╁                | ├  | ┝            | -         |          | ⊢            |            |  | 11<br>11                                     |
| -        | 18       | N        | -        | -            | ╁  | ╁  | $\vdash$ | $\vdash$ | +        | +        | 1   | _        | 68       | $\vdash$ | +-           | ╁                | $\vdash$   | $\vdash$     |           |          |              |            | <u> </u>   | 11   |
|          | 19       | N        |          | +            | 1  | $^{+}$   | +        | +        | +        | ╁┈       | 1   |          | 69       | $\vdash$ | +-           | ╁                | H  | <del> </del> | Н         |          |              |            | -  | 11   |
|          | 20       | N        |          | +            | 1  | 1  | +        | $\vdash$ | 1-       | 十        | 1   | _        | 70       | $\vdash$ | +            | ╁╌               | -  |              | H         | _        | $\vdash$     | ł          | ļ  | 12   |
|          | 21       | N        |          |              | 1  | 1  | t        | 1-       | ✝        | t        | 1.  | <u> </u> | 71       | -        | +            | ╁╴               | <del>                                     </del> |              |           |          | $\vdash$     | 1          |  | 12   |
|          | 22       | N        |          | T            | 1  | 1  |          | 1        |          | 1        | 1   |          | 72       |          | +            | +-               | 1  |              | Н         |          |              |            |  | 12   |
|          | 23       | N        |          |              |  | T  | 1        | $\top$   |          |          |     |          | 73       |          | $\dashv$     | _                |  |              |           | _        |              | ŀ          |  | 12   |
|          | 24       | N        |          | 1            | Г  |  |          | Τ        |          |          | 1.  |          | 74       |          | $\top$       | $\vdash$         |  |              |           | _        |              |            | М  | 11<br>11<br>12<br>12<br>12<br>12             |
|          | 25       | N        |          |              |  |  |          |          |          |          | ]   |          | 75       | П        | $\top$       | Τ                |  |              |           |          |              |            |  | 12   |
|          | 26       | N        | _        | L            |  | L  |          |          |          |          | ] • |          | 76       |          |              |                  |  |              |           |          |              |            |  | 12<br>12                                     |
|          | 27       | N        |          | L            |  |  |          |          |          |          |     |          | 77       |          |              |                  |  |              |           |          |              |            |  | 12   |
|          | 28       | N        | _        | _            | L  | $oxed{oxed}$                                     | <u> </u> |          | <u> </u> |          | ļ   |          | 78       |          |              |                  |  |              |           |          |              | -          |  | 12   |
| <u></u>  | 29       | N        | _        | _            | 上  | 1_   | L        | _        | _        | _        |     |          | 79       |          | $\perp$      |                  |  |              |           |          |              |            |  | 12<br>13<br>13<br>13                         |
|          | 30       | N        | <u> </u> | _            | igspace  | ╙  | ļ        | _        | <u> </u> | <u> </u> |     |          | 80       |          |              | ┖                | Ш  |              |           |          |              |            |  | 13   |
| <u> </u> | 31       | N        | _        | <u> </u>     | <u> </u>   | ┞  | _        | <u> </u> | Ľ        | ┞-       |     |          | 81       | $\perp$  |              | ļ                | Ш  |              | _         |          | _            |            |  | 13   |
|          | 32       | N        |          | ├-           | <b>├</b>   | ├-   | ļ.,      | ļ        | <u> </u> | ├-       | 1   |          | 82       | -        | -            | _                | Ш  |              | _         | _        | _            |            |  | 13   |
| <u> </u> | 33<br>34 | N        | ┡        | -            | ├  | ├  | ├        | ├-       | -        | ⊢        |     |          | 83       | -        | - -          |                  | Ш  |              |           | _        |              |            |  | 13   |
|          | 35       | N        |          | ├            | ⊢  | ├  | ╀        | ├        | <u> </u> | ┢        |     |          | 84       | -        | +            | -                |  | -            | _         |          | $\Box$       |            | $\vdash \vdash$                                  | 13<br>13                                     |
| -        | 36       | $\vdash$ | _        | ⊢            | -  | ⊢  | ├        | ├        | -        | -        |     |          | 85       | -        | +            | ⊢                | $\vdash$   | _            | _         |          | -            | : 1        | $\vdash$   | 13   |
| -        | 37       |          | -        | -            |  | $\vdash$   | ╁        | -        | -        | -        |     |          | 86<br>87 | +        |              | $\vdash$         | $\vdash \dashv$                                  |              | $\dashv$  | $\dashv$ | $\dashv$     |            | $\vdash$   | 13   |
| $\vdash$ | 38       | -        | _        | $\vdash$     | -  | -  | $\vdash$ | $\vdash$ | ┢        | $\vdash$ |     |          | 88       | -+       | +            | $\vdash$         | $\vdash \vdash$                                  | $\dashv$     |           | -        | $\dashv$     |            | <del>                                     </del> | 13<br>13                                     |
|          | 39       | -        | _        | $\vdash$     | <del>                                     </del> |  | 1        |          |          | 1        |     |          | 89       | +        | +            | <del>  -  </del> | -  | $\dashv$     | $\dashv$  | -        | $\dashv$     | •          |  | 12   |
|          | 40       |          | -        |              | -  | H  | ╁        | $\vdash$ | -        | -        |     |          | 90       | +        | +            | -                | $\vdash$   | $\dashv$     | $\dashv$  | $\dashv$ | $\dashv$     | ٠          |  | 14   |
|          | 41       |          |          | $\vdash$     | $\vdash$   | <del>                                     </del> | _        | ┢        |          | $\vdash$ |     |          | 91       | $\dashv$ | +-           |                  |  |              | $\dashv$  | ᅥ        |              |            |  | 14   |
|          | 42       |          |          |              |  |  | _        | _        |          |          |     |          | 92       | _        | +            | $\vdash$         |  | 寸            | $\dashv$  | $\dashv$ | $\neg$       |            |  | 142  |
|          | 43       |          |          |              |  |  | $\vdash$ |          |          | П        |     |          | 93       | _        | +            |                  | 7  | _            | $\dashv$  | $\dashv$ | 一            | *          | $\Box$   | 143  |
|          | 44       |          |          |              |  |  |          |          | Г        |          | l i |          | 94       | $\neg$   | 1            | П                |  | 一            | 寸         | $\dashv$ | $\dashv$     |            | $\Box$   | 144  |
|          | 45       |          |          |              |  | L  |          |          |          |          | '   |          | 95       | $\neg$   | 1            | П                |  | $\neg$       |           | 寸        | $\dashv$     | Ì          |  | 14   |
|          | 46       |          |          |              |  |  |          |          |          |          |     |          | 96       |          |              | П                |  |              |           |          | $\exists$    |            |  | 140  |
|          | 47       |          |          |              |  |  |          |          |          |          |     |          | 97       |          |              |                  |  |              |           |          |              |            | $\neg \neg$                                      | 14   |
|          | 48       |          |          |              |  |  |          |          |          |          |     |          | 98       |          |              |                  |  |              |           |          | $\Box$       |            |  | 148  |
|          | 49       |          |          |              |  |  |          |          |          |          |     |          | 99       |          | $oxed{oxed}$ |                  |  |              |           |          |              |            |  | 149  |
| igsquare | 50       |          |          | L.           |  |  |          |          |          |          |     | I        | 100      | $\Box I$ |              |                  |  |              |           |          |              |            |  | 150  |
|          |          |          |          |              | _  |  |          |          |          |          | -   |          |          |          |              |                  |  |              |           |          |              |            |  |  |

| Claim         |                                 |  | Date           |              |  |              |          |                 |   |                 |  |  |  |
|---------------|---------------------------------|--|----------------|--------------|--|--------------|----------|-----------------|---|-----------------|--|--|--|
|               |                                 |  |                | 1            | T  | T            |          | T               | Т   | Т               |  |  |  |
| <u>7</u>      | Original                        | 1  | l              |              |  |              |          |                 |   |                 |  |  |  |
| Final         | <u>:</u> g                      | 1  | 1              | ł            |  |              | 1        |                 | 1   |                 |  |  |  |
| ш.            | ō                               |  |                | 1            |  |              |          | 1               |   | 1               |  |  |  |
|               | ı                               | <u> </u>   | ╄              | ↓_           | <b>!</b> _                                       | ┺            | 1        | 1               | _   | ╄               |  |  |  |
| <u> </u>      | 101                             | ↓  | _              | L            | 丄  | ⊥_           | _        | ┸               | _   | <u> </u>        |  |  |  |
|               | 102                             | <u> </u>   | <u> </u>       | _            |  |              |          | _               | L   |                 |  |  |  |
| L.            | 102<br>103                      |  |                |              | 1  |              |          |                 |   |                 |  |  |  |
|               | 104                             | П  | Π              |              | Т  | Π            | П        | Т               |   | П               |  |  |  |
|               | 105<br>106                      |  |                | Г            |  | Г            | Г        |                 | T   |                 |  |  |  |
|               | 106                             | Π  | 1              | $\dagger$    |  | $\top$       |          | T               |   | Ť T             |  |  |  |
|               | 107                             | 1  | 1              | T            | T  | ┰            | $\vdash$ | $^{+}$          | t   | †               |  |  |  |
|               | 108                             | <del>                                     </del> | 1              | ✝            | 1  | T            | +-       | $\vdash$        | 1   | 1               |  |  |  |
|               | 109                             | _  | +-             | +            | ╁  | $\vdash$     | ╁        | +-              | ╁─  | $\vdash$        |  |  |  |
|               | 110                             | -  | +              | +            | ╁  | ⊢            | ╁╌       | +-              | ╁   | 1               |  |  |  |
| <b>-</b>      | 111                             | _  | +              | +            | +  | +-           | +-       | ╁               | +   | <del> -</del>   |  |  |  |
| $\vdash$      | 112                             | $\vdash$   | 1              | +            | +-   | +-           | ╁        | +               | +   | -               |  |  |  |
| <del></del>   | 112                             | -  | -              | ╀            | +  | $\vdash$     | -        | ₩               | ⊢   | $\vdash$        |  |  |  |
| $\vdash$      | 113                             | _  | $\vdash$       | ┼            |  | ↓            |          |                 | ╄   | H               |  |  |  |
| <u> </u>      | 114                             | <b> </b>   | 1_             | <u> </u>     | 1_   | 1_           | ļ        | 1               | ┺   | Ш               |  |  |  |
|               | 115                             | _  | L.             | $\perp$      | $\perp$  | 1_           | _        | <u> </u>        | $\perp$   | <u> </u>        |  |  |  |
|               | 116                             | L.   | _              | L            | _  | _            |          | $oxed{igspace}$ | L   | Ш               |  |  |  |
|               | 117                             | L  |                |              |  | <u> </u>     |          | 上               | L   |                 |  |  |  |
|               | 118                             | _  |                |              | L  |              | L        |                 | _   |                 |  |  |  |
|               | 119<br>120<br>121               |  |                |              |  |              |          |                 |   |                 |  |  |  |
|               | 120                             |  |                |              |  | Г            |          |                 |   |                 |  |  |  |
|               | 121                             |  |                |              |  |              |          | П               | Т   |                 |  |  |  |
|               | 122                             |  |                | П            | Г  | Г            |          |                 |   |                 |  |  |  |
|               | 123                             |  |                |              | П  |              |          |                 | <u> </u>  |                 |  |  |  |
|               | 122<br>123<br>124               | _  |                |              |  |              |          | Т               |   |                 |  |  |  |
|               | 125<br>126<br>127<br>128<br>129 |  |                |              |  |              |          | T               | l   |                 |  |  |  |
|               | 126                             |  |                | $\vdash$     |  | T            |          | $\vdash$        | $\vdash$  | $\vdash$        |  |  |  |
|               | 127                             |  |                |              |  |              |          |                 |   | $\vdash$        |  |  |  |
|               | 128                             | $\vdash$   | ┪              | ┢            | <del>                                     </del> | $\vdash$     | ┰        | $\vdash$        |   | Н               |  |  |  |
|               | 129                             | $\vdash$   | <del>  -</del> | Н            | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$        | ┢   | $\vdash$        |  |  |  |
|               | 130                             |  | -              | ┝            | H  |              | H        | ┢               | ┢   | ╂━┤             |  |  |  |
|               | 130<br>131                      | -  | -              | Н            | $\vdash$   | $\vdash$     | $\vdash$ | H               | $\vdash$  | $\vdash$        |  |  |  |
|               | 132                             | _  | $\vdash$       | ├            | -  | ┢            | -        | ╁─              | -   | Н               |  |  |  |
| $\vdash$      | 132                             | -  |                |              |  | $\vdash$     | -        | -               | $\vdash$  | Н               |  |  |  |
| <del>  </del> | 133<br>134<br>135               | -  | $\vdash$       | -            | ┢  | -            | -        | $\vdash$        | $\vdash$  | Н               |  |  |  |
|               | 125                             | <del></del>                                      | -              | $\vdash$     | -  | -            |          | $\vdash$        | -   | Н               |  |  |  |
| $\vdash$      | 135                             |  | -              | ├-           | ├-   | <del> </del> |          |                 |   | $\vdash \vdash$ |  |  |  |
|               | 136<br>137                      |  | <u> </u>       | <del> </del> | $\vdash$   | <u> </u>     | <u> </u> | _               |   | $\vdash \vdash$ |  |  |  |
|               | 137                             | _  | _              | _            | L  | _            |          | _               | _   | $\dashv$        |  |  |  |
|               | 138                             |  | Ь.             | <u> </u>     | L_   | <u> </u>     | ⊢        | <u> </u>        | <u> </u>  | Ы               |  |  |  |
|               | 139                             |  | Щ.             | L.           | <u> </u>   | _            | <u> </u> |                 |   | Ш               |  |  |  |
|               | 140                             | Щ  |                | Ь.,          | L  | <u> </u>     | _        | _               | _   | Ш               |  |  |  |
|               | 141                             |  |                |              | L  | $\vdash$     |          | lacksquare      | <u> </u>  |                 |  |  |  |
| $\rightarrow$ | 142                             | Щ  |                |              | <u> </u>   | Ш            |          | $oxed{oxed}$    | $\sqcup$  | Ш               |  |  |  |
|               | 143                             |  |                | نــا         |  |              |          |                 | $ldsymbol{ld}}}}}}}}}$ | Ш               |  |  |  |
|               | 144                             |  |                |              |  |              |          |                 |   |                 |  |  |  |
|               | 145                             |  |                |              |  |              |          |                 |   |                 |  |  |  |
|               | 146                             |  |                |              |  |              |          |                 |   |                 |  |  |  |
|               | 147                             |  |                |              |  |              |          |                 |   |                 |  |  |  |
|               | 148                             |  |                |              |  |              |          |                 |   |                 |  |  |  |
|               | 149                             |  |                |              |  |              |          | П               |   | $\neg$          |  |  |  |
|               | 150                             |  |                |              |  |              |          |                 |   | $\neg$          |  |  |  |
|               |                                 |  |                |              |  |              |          |                 |   |                 |  |  |  |